

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
11 March 2004 (11.03.2004)

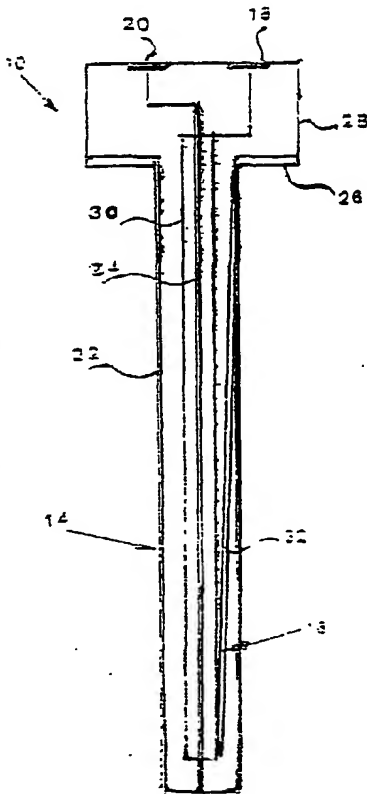
PCT

(10) International Publication Number
WO 2004/021742 A3

- (51) International Patent Classification⁷: **H05B 1/02** (74) Agents: **EITAN, PEARL, LATZER & CO-**
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- (21) International Application Number:
PCT/IL2003/000700
- (22) International Filing Date: 25 August 2003 (25.08.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
151504 27 August 2002 (27.08.2002) IL
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: IMPROVEMENTS IN THERMOSTAT FOR WATER BOILER



(57) Abstract: A thermal control device (10) for electrically powered appliances, in particular a thermostat to protect against overheating of a hot water boiler. The thermostat having a structure (26) supporting a first (20) and second (18) electric switches disposed in series between an electric power supply and an electric heating element, an extended length first bimetal device (14) being arranged for thermal at least indirect contact with water being heated, a second bimetal device (16) disposed inside the first bimetal device and acting to open the second switch if the second bimetal device reaches a second temperature higher than a first temperature due to the failure of the first bimetal device to open the first switch



Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:

1 April 2004

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL03/00700

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H05B 1/02

US CL : 392/498

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 392/498, 497

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EAST search terms: thermostat, bimetal, brass, invar, fail

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4,752,671 A (FOSTER et al) 21 June 1988, entire document.	1-4
A	US 4,539,468 A (PHILLIPS et al) 03 September 1985, entire document.	1-4
A	US 5,408,579 A (HUNT) 18 April 1995, entire document.	1-4

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"&"

document member of the same patent family

Date of the actual completion of the international search

23 January 2004 (23.01.2004)

Date of mailing of the international search report

11 FEB 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US

Commissioner for Patents

P.O. Box 1450

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Facsimile No. (703)305-3230

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PCT/IL03/00700

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